

Europe Medical Fiber Optics Market By Application (Illumination, Endoscopic Imaging, Biomedical Sensing, Laser Signal Delivery, and Other Applications), By Fiber Type (Multimode Optical Fiber and Single Mode Optical Fiber), By Country, Industry Analysis and Forecast, 2020 - 2026

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Abstracts

The Europe Medical Fiber Optics Market would witness market growth of 8.3% CAGR during the forecast period (2020-2026).

With the introduction of lasers into medicine and the development of fiber-optic technologies, there has also been a visible emergence of novel medical appliances. These appliances are vastly being used for both diagnostics and therapy. These appliances have opened up the opportunity for both invasive and non-invasive treatments. It is also being used in the endoscopic surgery to imaging diagnostics in so-called keyhole technologies. Generally, the low power optical fibers are used for diagnostic purposes. However, some of the surgical procedures normally need the transmission of high power up to 200 W in CW operation. Moreover, acquiring medical certification for optical fibers used in the clinic is a great challenge for marketers.

Some of the surgical laser applications include endoscopic vaporization, enucleation of the benign prostate, and fragmentation of kidney stones in urology. The endoscopic procedure helps in the destruction and removal of tumorous tissue in the bronchial branches in pulmonology. Its application is also seen in the endoluminal sclerosis of varicose veins; and tissue ablation in the nose and throat. The endoscopes consist of optical fibers that are used in various operations to transmit light into the internal organs. This light is used to collect clear image data of internal organs.

The use of optical fibers into the medical setting has helped the surgeon to perform safer surgeries. Also, it has helped in better diagnostic calculations which lead to an increase in the recovery time of the patient. The favorable qualities of optical fibers, such as their amenability to sterilization, lightweight, and small size provide many opportunities for the development of medical devices.

Based on Application, the market is segmented into Illumination, Endoscopic Imaging, Biomedical Sensing, Laser Signal Delivery, and Other Applications. Based on Fiber Type, the market is segmented into Multimode Optical Fiber and Single Mode Optical Fiber. Based on countries, the market is segmented into Germany, UK, France, Russia, Spain, Italy, and Rest of Europe.

The market research report covers the analysis of key stake holders of the market. Key companies profiled in the report include MKS Instruments, Inc. (Newport Corporation), IPG Photonics Corporation, Coherent, Inc., LEONI Group, Fiberoptics Technology, Inc., Timbercon, Inc. (Radiall America, Inc.), Gulf Fiberoptics, Inc., Sunoptic Technologies, LLC, Vitalcor, Inc., and Infinite Electronics, Inc. (Integra Optics, Inc.).

Scope of the Study

Market Segmentation:

By Application

Illumination

Endoscopic Imaging

Biomedical Sensing

Laser Signal Delivery

Other Applications

By Fiber Type

Multimode Optical Fiber

Single Mode Optical Fiber

By Country

Germany

UK

France

Russia

Spain

Italy

Rest of Europe

Companies Profiled

MKS Instruments, Inc. (Newport Corporation)

IPG Photonics Corporation

Coherent, Inc.

LEONI Group

Fiberoptics Technology, Inc.

Timbercon, Inc. (Radiall America, Inc.)

Gulf Fiberoptics, Inc.

Sunoptic Technologies, LLC

Vitalcor, Inc.

Infinite Electronics, Inc. (Integra Optics, Inc.)

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Contents

CHAPTER 1. MARKET SCOPE & METHODOLOGY

- 1.1 Market Definition
- 1.2 Objectives
- 1.3 Market Scope
- 1.4 Segmentation
 - 1.4.1 Europe Medical Fiber Optics Market, by Application
 - 1.4.2 Europe Medical Fiber Optics Market, by Fiber Type
 - 1.4.3 Europe Medical Fiber Optics Market, by Country
- 1.5 Methodology for the research

CHAPTER 2. MARKET OVERVIEW

- 2.1 Introduction
 - 2.1.1 Overview
 - 2.1.2 Market Composition and Scenario
- 2.2 Key Factors Impacting the Market
 - 2.2.1 Market Drivers
 - 2.2.2 Market Restraints

CHAPTER 3. EUROPE MEDICAL FIBER OPTICS MARKET BY APPLICATION

- 3.1 Europe Illumination Market by Country
- 3.2 Europe Endoscopic Imaging Market by Country
- 3.3 Europe Biomedical Sensing Market by Country
- 3.4 Europe Laser Signal Delivery Market by Country
- 3.5 Europe Other Application Market by Country

CHAPTER 4. EUROPE MEDICAL FIBER OPTICS MARKET BY FIBER TYPE

- 4.1 Europe Multimode Optical Fiber Market by Country
- 4.2 Europe Single Mode Optical Fiber Market by Country

CHAPTER 5. EUROPE MEDICAL FIBER OPTICS MARKET BY COUNTRY

- 5.1 Germany Medical Fiber Optics Market
 - 5.1.1 Germany Medical Fiber Optics Market by Application

- 5.1.2 Germany Medical Fiber Optics Market by Fiber Type
- 5.2 UK Medical Fiber Optics Market
 - 5.2.1 UK Medical Fiber Optics Market by Application
 - 5.2.2 UK Medical Fiber Optics Market by Fiber Type
- 5.3 France Medical Fiber Optics Market
 - 5.3.1 France Medical Fiber Optics Market by Application
 - 5.3.2 France Medical Fiber Optics Market by Fiber Type
- 5.4 Russia Medical Fiber Optics Market
 - 5.4.1 Russia Medical Fiber Optics Market by Application
 - 5.4.2 Russia Medical Fiber Optics Market by Fiber Type
- 5.5 Spain Medical Fiber Optics Market
 - 5.5.1 Spain Medical Fiber Optics Market by Application
 - 5.5.2 Spain Medical Fiber Optics Market by Fiber Type
- 5.6 Italy Medical Fiber Optics Market
 - 5.6.1 Italy Medical Fiber Optics Market by Application
 - 5.6.2 Italy Medical Fiber Optics Market by Fiber Type
- 5.7 Rest of Europe Medical Fiber Optics Market
 - 5.7.1 Rest of Europe Medical Fiber Optics Market by Application
 - 5.7.2 Rest of Europe Medical Fiber Optics Market by Fiber Type

CHAPTER 6. COMPANY PROFILES

- 6.1 MKS Instruments, Inc. (Newport Corporation)
 - 6.1.1 Company Overview
 - 6.1.2 Financial Analysis
 - 6.1.3 Segmental and Regional Analysis
 - 6.1.4 Research & Development Expense
- 6.2 IPG Photonics Corporation
 - 6.2.1 Company Overview
 - 6.2.2 Financial Analysis
 - 6.2.3 Regional Analysis
 - 6.2.4 Research & Development Expense
 - 6.2.5 Recent strategies and developments:
 - 6.2.5.1 Product Launches and Product Expansions:
 - 6.2.5.2 Acquisition and Mergers:
- 6.3 Coherent, Inc.
 - 6.3.1 Company Overview
 - 6.3.2 Financial Analysis
 - 6.3.3 Segmental and Regional Analysis

- 6.3.4 Research & Development Expense
- 6.4 LEONI Group
 - 6.4.1 Company Overview
 - 6.4.2 Financial Analysis
 - 6.4.3 Segmental and Regional Analysis
 - 6.4.4 Research & Development Expense
- 6.5 Fiberoptics Technology, Inc.
 - 6.5.1 Company Overview
- 6.6 Timbercon, Inc. (Radiall America, Inc.)
 - 6.6.1 Company Overview
 - 6.6.2 Recent strategies and developments:
 - 6.6.2.1 Product Launches and Product Expansions:
- 6.7 Gulf Fiberoptics, Inc.
 - 6.7.1 Company Overview
- 6.8 Sunoptic Technologies, LLC
 - 6.8.1 Company Overview
- 6.9 Vitalcor, Inc.
 - 6.9.1 Company Overview
- 6.1 Infinite Electronics, Inc. (Integra Optics, Inc.)
 - 6.10.1 Company overview
 - 6.10.2 Recent strategies and developments:
 - 6.10.2.1 Partnerships, Collaborations, and Agreements:

List Of Tables

LIST OF TABLES

TABLE 1 EUROPE MEDICAL FIBER OPTICS MARKET, 2016 - 2019, USD MILLION

TABLE 2 EUROPE MEDICAL FIBER OPTICS MARKET, 2020 - 2026, USD MILLION

TABLE 3 EUROPE MEDICAL FIBER OPTICS MARKET BY APPLICATION, 2016 - 2019, USD MILLION

TABLE 4 EUROPE MEDICAL FIBER OPTICS MARKET BY APPLICATION, 2020 - 2026, USD MILLION

TABLE 5 EUROPE ILLUMINATION MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 6 EUROPE ILLUMINATION MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 7 EUROPE ENDOSCOPIC IMAGING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 8 EUROPE ENDOSCOPIC IMAGING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 9 EUROPE BIOMEDICAL SENSING MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 10 EUROPE BIOMEDICAL SENSING MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 11 EUROPE LASER SIGNAL DELIVERY MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 12 EUROPE LASER SIGNAL DELIVERY MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 13 EUROPE OTHER APPLICATION MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 14 EUROPE OTHER APPLICATION MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 15 EUROPE MEDICAL FIBER OPTICS MARKET BY FIBER TYPE, 2016 - 2019, USD MILLION

TABLE 16 EUROPE MEDICAL FIBER OPTICS MARKET BY FIBER TYPE, 2020 - 2026, USD MILLION

TABLE 17 EUROPE MULTIMODE OPTICAL FIBER MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 18 EUROPE MULTIMODE OPTICAL FIBER MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 19 EUROPE SINGLE MODE OPTICAL FIBER MARKET BY COUNTRY, 2016 -

2019, USD MILLION

TABLE 20 EUROPE SINGLE MODE OPTICAL FIBER MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 21 EUROPE MEDICAL FIBER OPTICS MARKET BY COUNTRY, 2016 - 2019, USD MILLION

TABLE 22 EUROPE MEDICAL FIBER OPTICS MARKET BY COUNTRY, 2020 - 2026, USD MILLION

TABLE 23 GERMANY MEDICAL FIBER OPTICS MARKET, 2016 - 2019, USD MILLION

TABLE 24 GERMANY MEDICAL FIBER OPTICS MARKET, 2020 - 2026, USD MILLION

TABLE 25 GERMANY MEDICAL FIBER OPTICS MARKET BY APPLICATION, 2016 - 2019, USD MILLION

TABLE 26 GERMANY MEDICAL FIBER OPTICS MARKET BY APPLICATION, 2020 - 2026, USD MILLION

TABLE 27 GERMANY MEDICAL FIBER OPTICS MARKET BY FIBER TYPE, 2016 - 2019, USD MILLION

TABLE 28 GERMANY MEDICAL FIBER OPTICS MARKET BY FIBER TYPE, 2020 - 2026, USD MILLION

TABLE 29 UK MEDICAL FIBER OPTICS MARKET, 2016 - 2019, USD MILLION

TABLE 30 UK MEDICAL FIBER OPTICS MARKET, 2020 - 2026, USD MILLION

TABLE 31 UK MEDICAL FIBER OPTICS MARKET BY APPLICATION, 2016 - 2019, USD MILLION

TABLE 32 UK MEDICAL FIBER OPTICS MARKET BY APPLICATION, 2020 - 2026, USD MILLION

TABLE 33 UK MEDICAL FIBER OPTICS MARKET BY FIBER TYPE, 2016 - 2019, USD MILLION

TABLE 34 UK MEDICAL FIBER OPTICS MARKET BY FIBER TYPE, 2020 - 2026, USD MILLION

TABLE 35 FRANCE MEDICAL FIBER OPTICS MARKET, 2016 - 2019, USD MILLION

TABLE 36 FRANCE MEDICAL FIBER OPTICS MARKET, 2020 - 2026, USD MILLION

TABLE 37 FRANCE MEDICAL FIBER OPTICS MARKET BY APPLICATION, 2016 - 2019, USD MILLION

TABLE 38 FRANCE MEDICAL FIBER OPTICS MARKET BY APPLICATION, 2020 - 2026, USD MILLION

TABLE 39 FRANCE MEDICAL FIBER OPTICS MARKET BY FIBER TYPE, 2016 - 2019, USD MILLION

TABLE 40 FRANCE MEDICAL FIBER OPTICS MARKET BY FIBER TYPE, 2020 - 2026, USD MILLION

TABLE 41 RUSSIA MEDICAL FIBER OPTICS MARKET, 2016 - 2019, USD MILLION

TABLE 42 RUSSIA MEDICAL FIBER OPTICS MARKET, 2020 - 2026, USD MILLION

TABLE 43 RUSSIA MEDICAL FIBER OPTICS MARKET BY APPLICATION, 2016 - 2019, USD MILLION

TABLE 44 RUSSIA MEDICAL FIBER OPTICS MARKET BY APPLICATION, 2020 - 2026, USD MILLION

TABLE 45 RUSSIA MEDICAL FIBER OPTICS MARKET BY FIBER TYPE, 2016 - 2019, USD MILLION

TABLE 46 RUSSIA MEDICAL FIBER OPTICS MARKET BY FIBER TYPE, 2020 - 2026, USD MILLION

TABLE 47 SPAIN MEDICAL FIBER OPTICS MARKET, 2016 - 2019, USD MILLION

TABLE 48 SPAIN MEDICAL FIBER OPTICS MARKET, 2020 - 2026, USD MILLION

TABLE 49 SPAIN MEDICAL FIBER OPTICS MARKET BY APPLICATION, 2016 - 2019, USD MILLION

TABLE 50 SPAIN MEDICAL FIBER OPTICS MARKET BY APPLICATION, 2020 - 2026, USD MILLION

TABLE 51 SPAIN MEDICAL FIBER OPTICS MARKET BY FIBER TYPE, 2016 - 2019, USD MILLION

TABLE 52 SPAIN MEDICAL FIBER OPTICS MARKET BY FIBER TYPE, 2020 - 2026, USD MILLION

TABLE 53 ITALY MEDICAL FIBER OPTICS MARKET, 2016 - 2019, USD MILLION

TABLE 54 ITALY MEDICAL FIBER OPTICS MARKET, 2020 - 2026, USD MILLION

TABLE 55 ITALY MEDICAL FIBER OPTICS MARKET BY APPLICATION, 2016 - 2019, USD MILLION

TABLE 56 ITALY MEDICAL FIBER OPTICS MARKET BY APPLICATION, 2020 - 2026, USD MILLION

TABLE 57 ITALY MEDICAL FIBER OPTICS MARKET BY FIBER TYPE, 2016 - 2019, USD MILLION

TABLE 58 ITALY MEDICAL FIBER OPTICS MARKET BY FIBER TYPE, 2020 - 2026, USD MILLION

TABLE 59 REST OF EUROPE MEDICAL FIBER OPTICS MARKET, 2016 - 2019, USD MILLION

TABLE 60 REST OF EUROPE MEDICAL FIBER OPTICS MARKET, 2020 - 2026, USD MILLION

TABLE 61 REST OF EUROPE MEDICAL FIBER OPTICS MARKET BY APPLICATION, 2016 - 2019, USD MILLION

TABLE 62 REST OF EUROPE MEDICAL FIBER OPTICS MARKET BY APPLICATION, 2020 - 2026, USD MILLION

TABLE 63 REST OF EUROPE MEDICAL FIBER OPTICS MARKET BY FIBER TYPE,

2016 - 2019, USD MILLION

TABLE 64 REST OF EUROPE MEDICAL FIBER OPTICS MARKET BY FIBER TYPE,
2020 - 2026, USD MILLION

TABLE 65 KEY INFORMATION – MKS INSTRUMENTS, INC.

TABLE 66 KEY INFORMATION – IPG PHOTONICS CORPORATION

TABLE 67 KEY INFORMATION – COHERENT, INC.

TABLE 68 KEY INFORMATION – LEONI GROUP

TABLE 69 KEY INFORMATION – FIBEROPTICS TECHNOLOGY, INC.

TABLE 70 KEY INFORMATION – TIMBERCON, INC.

TABLE 71 KEY INFORMATION – GULF FIBEROPTICS, INC.

TABLE 72 KEY INFORMATION – SUNOPTIC TECHNOLOGIES, LLC

TABLE 73 KEY INFORMATION – VITALCOR, INC.

TABLE 74 KEY INFORMATION – INFINITE ELECTRONICS, INC.

List Of Figures

LIST OF FIGURES

FIG 1 METHODOLOGY FOR THE RESEARCH

I would like to order

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